

AMENDMENTS TO THE CLAIMS:

1. (Currently amended) A mobile communication system, comprising: ~~which comprises~~
a mobile station; (1),
a radio network (2) for radio transmission and reception to and from said mobile
~~station,~~ station;
a home location register (4) for managing, through a mobile services-switching center,
(3), current location information representative of a current location of said mobile station in
a public telephone ~~network,~~ and network;
A/ a home agent (7) for managing, through a packet gateway, (6), current location
information representative of a current location of said mobile station in a packet data
communication ~~network,~~ wherein network; and
a communication channel connecting said home location register and said home agent
~~are connected to each other through a communication channel (15) for transmission of update~~
contents for the current location information managed by said home location register and said
home agent, ~~and wherein:~~
each of said home location register and said home agent comprises a ~~are provided~~
~~with location information update units (13, 14) unit responsive to said the update contents for~~
updating the current location information managed by said home location register and said
home agent, respectively, and
said home location register further comprises a subscriber register for remotely
carrying out subscriber registration of said mobile station into said home agent through said

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communication channel.

2. (Canceled)

3. (Currently amended) A mobile communication system as claimed in claim 1, wherein at least one of said home location register and said home agent ~~is provided with further~~ comprises a current location information conversion table (9) for converting an indication format of the current location information managed by said at least one of the home location register and the home agent.

4. (Currently amended) A mobile communication system as claimed in claim ~~2~~ 1, wherein:

~~connection between said home location register and said home agent via said~~
communication channel ~~is~~ comprises a network connection utilizing a TCP/IP (Transmission Control Protocol/Internet Protocol) network, and

the identifying information of said home agent ~~comprising~~ comprises a network address of said home agent on said TCP/IP network.

5. (Currently amended) A mobile communication system as claimed in claim 1, wherein said packet data communication network ~~is~~ comprises an internet.

6. (Currently amended) A current location information matching method for a mobile

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AI communication system which comprises a mobile station, (1), a radio network (2) for radio transmission and reception to and from said mobile station, a home location register (4) for managing, through a mobile services-switching center, (3), current location information representative of a current location of said mobile station in a public telephone network, and a home agent (7) for managing, through a packet gateway, (6), current location information representative of a current location of said mobile station in a packet data communication network, ~~said current location information matching method being for matching the current location information of said mobile station in said public telephone network and the current location information of said mobile station in said packet data communication network,~~ wherein said method comprising: the steps of:

connecting said home location register and said home agent to each other through a communication channel; (15);

~~carrying out,~~ in said home location register, updating ~~of~~ the current location information of said mobile station in said public telephone network in response to a current location report transmitted from said mobile station to said radio network during mobile communication on said public telephone network, ~~to inform an update content and providing~~ updated location information through said communication channel to said home agent; and

~~carrying out,~~ in said home agent, updating ~~of~~ the current location information of said mobile station in said packet data communication network in response to a current location report transmitted from said mobile station to said radio network during packet data communication, ~~to inform an update content and providing~~ updated location information through said communication channel to said home location register.

7. (New) A mobile communication system, comprising:

a mobile station,

a radio network for radio transmission and reception to and from said mobile station;

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a home location register for managing, through a mobile services-switching center, current location information representative of a current location of said mobile station in a public telephone network;

a home agent for managing, through a packet gateway, current location information representative of a current location of said mobile station in a packet data communication network; and

a communication channel connecting said home location register and said home agent to each other for transmission of update contents for the current location information managed by said home location register and said home agent, wherein:

said home location register comprises a home agent register for registering, in said home location register, identifying information of said home agent corresponding to said mobile station, and a subscriber register for remotely carrying out subscriber registration of said mobile station into said home agent through said communication channel.]

8. (New) A mobile communication system as claimed in claim 7, wherein at least one of said home location register and said home agent comprises a current location information conversion table for converting an indication format of the current location information managed by said at least one of the home location register and the home agent.

9. (New) A mobile communication system as claimed in claim 7, wherein:
said communication channel comprises a network connection utilizing a TCP/IP
(Transmission Control Protocol/Internet Protocol) network, and
the identifying information of said home agent comprises a network address of said
home agent on said TCP/IP network.

10. (New) A mobile communication system as claimed in claim 7, wherein said packet
data communication network comprises an internet.

11. (New) A mobile communication system as claimed in claim 1, wherein said home
location register furthered comprises a home agent register for registering, in said home
location register, identifying information of said home agent corresponding to said mobile
station.

12. (New) A mobile communication system as claimed in claim 1, wherein a packet data
communication service subscriber registered in the home location register is simultaneously
registered in the home agent.

13. (New) A current location information matching method as claimed in claim 6, wherein a
packet data communication service subscriber registered in the home location register is
simultaneously registered in the home agent.

14. (New) A mobile communication system as claimed in claim 7, wherein a packet data communication service subscriber registered in the home location register is simultaneously registered in the home agent.

AI 15. (New) A mobile communication system as claimed in claim 1, wherein a packet data communication service subscriber registered in the home location register is automatically registered in the home agent.

16. (New) A current location information matching method as claimed in claim 6, wherein a packet data communication service subscriber registered in the home location register is automatically registered in the home agent.

17. (New) A mobile communication system as claimed in claim 7, wherein a packet data communication service subscriber registered in the home location register is automatically registered in the home agent.
